



101101 VOL#08 – **CEDIA 2010**

CEDIA Expo 2010 was held in Atlanta, USA at 23-26 Sep, 2010. CEDIA EXPO gives you the best strategies to profit in home entertainment, environmental control, energy management, green technology, home health, security, and more. Crestron shows several new products (released or will be released) in the show. Although most of the products are not yet released, an overview of CEDIA2010 can help to provide more information for developing strategy in future.

CEDIA Manufacturer Excellence Awards

CEDIA Electronic Lifestyles® Awards is the most prestigious form of recognition in the custom electronics industry, commending the outstanding work of its members at its annual Awards Banquet. These highly sought after awards are presented each year to recognize industry excellence. The following Crestron products won first place awards:

- Horizon Award (best future technology):
UFO-4ER 4.3" Handheld Wireless Touchpanel
- Sustainable Lifestyles Product Innovation Award:
Fusion Viridian™ Energy Management Software
- Attendees' Choice Award:
PROCISE™ High-Definition Professional 7.3 Surround Sound Processor

Integration with Apple

Crestron Mobile

There is new feature in Crestron Mobile Application:
(Released date to be confirmed)



- Gauges/Sliders can be used on Crestron Mobile layout. (for ALL version)
- Due to small size of Flash memory in some processor, user can upload and save the layout to iPad/iPhone through iTunes. This function is only valid for Pro Version
- User can view MJPEG streaming video on Crestron Mobile Pro/ Pro G.

Lighting and HVAC Product

DIN-DALI-2

DIN-Rail installation

- Interfaces with 2 independent DALI loops (Control up to 128 DALI ballasts). Cresnet communication (PoE version will released later)
- Integrated DALI power supply for DALI Data Bus
- Crestron DALI Commissioning Software for easy setup (Commissioning Software will release at early 2011)



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International Wireless Dimmers



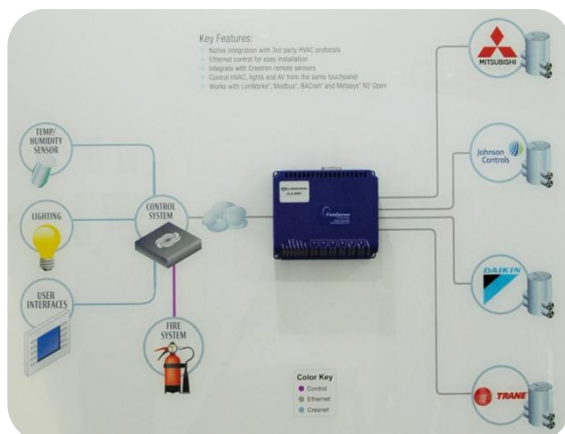
These dimmer are designed to work for 230V application and communicate via the infiNET EX™ wireless mesh network. They should be worked with CEN-RFGW-EX to communicate with Crestron Processor.

- CLCI-1DIMFLV2EX-W (Compact 0-10V dimmer with 2 channels)
- CLCI-1SW2EX-W (Compact switch with 2 channels)
- CLCI-DIMUEX-W (Compact universal dimmer)

GLA-BMS

The GLA-BMS is an Ethernet based "protocol translator" which allows a Crestron system to communicate directly with any number of building management protocols:

- BACnet,
- Modbus,
- LonWorks,
- Metasys N2 Open



It provides means to control advanced HVAC, Security and Fire system. It is not used with out-of-the-box function, Crestron need to configure the GLA-BMS before shipped. (Need to create a quote that includes configuration services). The configuration procedure for GLA-BMS will be released by Crestron US office later.

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Fusion Viridian Energy Management Software

Viridian™ software provides homeowners with the first complete energy management system that unifies all home technology. Viridian combines home control, real-time usage monitoring, and scheduling of every environmental system/appliance on a single scalable platform.



- Control HVAC, lighting and security
- Schedule events such as "night mode" to occur daily, weekly, etc.
- View real-time whole-home usage
- Run reports to show consumption
- Project monthly utility costs
- Receive emergency alerts
- Identify areas to save money



Network Solutions

myCrestron Dynamic DNS Service

One of the most compelling features of a Crestron system is the ability to remotely monitor your home's lighting, climate, and security system status from another location.

- DDNS service that provide a friendly URL to enable constant remote access
- Stay connected no matter how often your ISP changes your IP address
- Crestron dealer can manage unlimited client domains within a single account
- myCrestron domain is maintained on Crestron servers (reliable, secure remote access at any time)

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CEN-SWPOE-24

The CEN-SWPOE-24 offers control system networking made easy, providing Crestron® guaranteed performance and reliability for a complete Ethernet network of touchpanels, keypads, control processors, and other devices in a mere 2-space rack mount package.



- Rack-mount 24-port managed 10/100 Ethernet switch
- All ports rear mounted for use in a typical AV equipment rack
- Full 802.3af PoE provided simultaneously across 24 ports
- Dual Gigabit Ethernet uplink/stacking ports
- Front panel monitoring port for easy troubleshooting
- Configured via simple-to-use Web browser interface
- SNMP monitoring and management
- Port configuration settings for speed, flow control, QoS and more
- Custom front panel labeling using Crestron Engraver software

CEN-C-F Ethernet over Fiber Extender

- Extends Ethernet 2 km over a single multimode fiber
- Supports 100BaseT Fast Ethernet
- Provides electrical isolation for outdoor runs
- No programming or configuration needed
- PoE network powered



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Handheld Controllers

MLX-3

A new, low-cost handheld remote with color LCD display and infiNET EX™ wireless technology, the MLX-3 represents an incredible value in a rugged handheld remote that's extremely customizable, reliable, and intuitive to use.

- TFT active-matrix color LCD display
- True-feedback and dynamic text capability
- Easy menu navigation using thumb-operated scroll wheel
- Sufficient memory for over 1000 custom icons, images, and status indicators
- Includes backlit buttons and 5-way navigation pad for complete AV and home control
- Top-mounted "power" button, plus side-mounted scroll wheel and "back" button
- Instant-Waking™ behavior
- Works like an IR remote — with all the benefits of 2-way RF!
- Ultra-reliable infiNET EX™ wireless communications
- 75 feet RF range (typical)
- Operates on four AA alkaline batteries



HTT-B10EX

- Cameo wireless (with infiNET EX) tabletop keypad
- 10 backlit engravable buttons and auto-dimmable backlight.
- Powered by batteries or external power pack.
- Wakes instantly when touched or picked up.



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UFO-WPR-3ER (Blue or White Option)

A fully waterproof remote with extended range RF performance and advanced color LCD display.

- Floats on top of the water's surface – immersible to 10 feet
- Provides true-feedback with dynamic graphics and text
- Rubberized exterior won't slip from grip
- Includes indoor surface-mountable docking station
- Withstands chlorinated and salt water, and temperatures from 32-140°F (0-60°C)
- Works like an IR remote — with all the benefits of 2-way RF!
- Instant-Waking™ behavior
- Extended range 2.4 GHz RF wireless technology
- Up to 200 feet RF range indoors, 1000 ft. outdoors
- Supports roaming for extended RF coverage

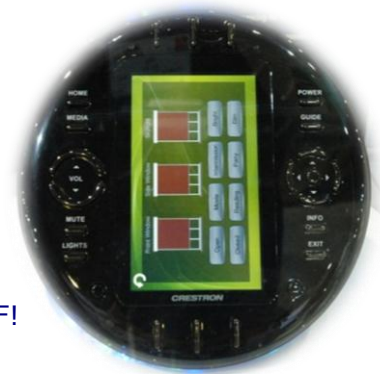


Touchpanel

UFO-4ER

Crestron UFO takes a new perspective on remote control design. Its distinctive round shape facilitates a large rotatable color touchscreen.

- Usable in portrait and landscape mode
- 16-bit color graphics | 800 x 480 resolution
- White LED backlit buttons and text
- WAV file customizable audio feedback
- Instant-Waking™ behavior
- Works like an IR remote — with all the benefits of 2-way RF!
- Extended range 2.4 GHz RF wireless technology
- Up to 200 feet RF range indoors (typical)
- Supports roaming for extended RF coverage
- Long-lasting LiPo rechargeable battery pack



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TPMC-3X

More color option of the TPMC-3X body.



TPMC-4SMD

- High-resolution 4.3" widescreen color touchscreen
- Hard buttons w/white backlight and feedback
- Fits in a horizontal 1-gang or Euro backbox
- Available tabletop and multi-surface mounting kits
- PoE network powered for single-wire Ethernet connectivity
- Streaming video and Crestron IP intercom
- Buttons pre-labeled for common home control functions
- Custom button engraving available
- Ships with no button inserts
- Built-in proximity sensor wakes screen on approach
- Available in gloss black or white



*TPMC-4SMD is powered by Core 3 platform and no "Roomview Mode" is included.

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Low-Profile Desktop Docking Station for TPS-6X

Three colors (Black, Black textured and White) are available. Full-featured and charging only versions available.



TPMC-8X-GA

- 100% Wi-Fi performance increase – Allows near-omnidirectional range up to 80 feet using 802.11 b or g, and 35 feet using 802.11a
- Accelerated graphics – supports Adobe® Flash® objects, and improves handling of Web-based video from YouTube™, Netflix®, etc.
- Auto backlight level control – improves battery life while optimizing display brightness in response to fluctuations in the lighting and video image in the room
- Wake on touch – one touch of the touchscreen enables full use within seconds from a powered-down state
- Louder, clearer audio – provides a better personal multimedia experience
- Hands-free intercom and SIP phone support (coming soon)
- H.264 high-definition streaming video (coming soon)



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iPanel



The patent-pending iPanel™ from Crestron® ingeniously adds hard button controls to the Apple® iPad™ to deliver a remarkable touchpanel solution for home theaters, boardrooms, and numerous other applications. It is designed for use with the Crestron Mobile Pro G app under WiFi connection.

Snap over the face of an iPad™ like a clam shell

- Features 13 hard buttons:
Volume Up/Down; Mute; Lights; Home; Guide; Info; Exit; Left, Right Up, Down, Select. Even user is watching youtube or playing game, they can still control the Crestron System through these hard buttons on iPanel.
- Power and communications occur through the iPad multi-pin connector
- Tabletop charging dock included

IDOC-PAD-DSC/IDOC-PAD-DSW

Tabletop and In-Wall station for iPad in white and black. It allows full use of iPad while charging at the station and the iPad can be easily undocked for portable use. It is designed for seamless integration with Crestron Mobile Pro G control app.



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TPMC-9/TPMC-9L

- 9" widescreen color touch display
- 800 x 480 resolution
- Sleek, contoured tabletop tilt or stylish flush wall mount
- High gloss black or white, or matte black finishes
- Dynamic graphics and text capability
- Programmable swipe gestures for page flips and other functions
- Streaming and full-motion wired video display
- Crestron IP intercom
- WAV file audio feedback
- Built-in USB port for direct program upload



TPMC-V12/TPMC-V15 (White and Black)

Ultra Slim HD Touchpanel

- Built-in Digital Graphics Engine
- 2-inches deep body
- Built-in front-firing speakers provide clear audio for streaming media and internal PC applications,
- Enable IP intercom/ 2-way SIP Phone in combination with the integrated microphone.
- H 264 hardware decoder built in
 - Stream video directly to the panel
 - View MJPEG cameras directly on the panel
 - Windows Media Player built in
 - RealPlayer built in
 - Stream YouTube
- Word, Excel, PowerPoint viewers
- VNC built in to control computer remotely
- On-screen keyboard and mouse can control other devices like the ADMS directly
- VMK-WIN software allows built in keyboard to control external PCs over Ethernet
- USB port to use external keyboard and mouse



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V24 (White or Black)



- Widescreen 24" touchpanel display
- Capacitive touchscreen technology
- 1920 x 1200 display resolution
- Built-in HD scaler for crystal sharp video
- Excels as a TV display or computer monitor
- Fully HDCP compliant
- Single wire DigitalMedia 8G™ transport
- Separate graphics engine installs up to 330 ft. away
- Compatible with DigitalMedia switchers and transmitters
- Supports touchpanel control using a DGE or DVPHD
- Includes USB keyboard/mouse port
- VESA 100x200 mounting option
- Stylish tabletop tilt and flush wall mount options
- Included electronic pen for detailed note using Dual Touch technology.

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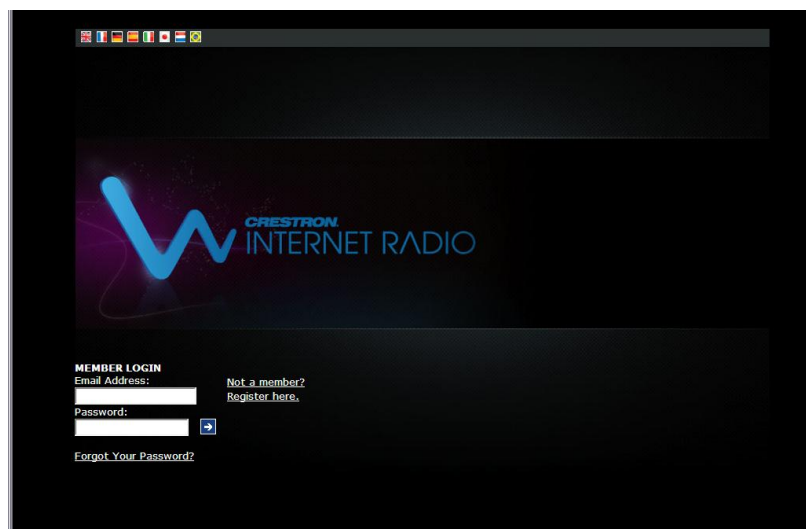


Audio Products

ATC-AUDIONET

This internet radio turner card is designed for CEN-TRACK, AES and AMS/AMS-AIP.

- Access virtually any streaming radio station in the world without a subscription
 - Supports the display of metadata and graphics
- Optional SIRIUS streaming radio service available with subscription
 - Requires no antenna, just a broadband connection
- Lists of favorite stations can be configured via front panels, touchpanels, and web page
- Supports WAV, MP3, WMA, AAC, and Real streaming formats
- Consistent Touchpanel UI – browse by genre, favorites and other (Very similar to iServer and ADMS user experience)
- Search alphanumerically or by keyword, genre, location, or language
- User can use the code of ATC-AUDIONET to apply account of <http://radio.crestron.com> to exploring all the available internet radio stations by PC.



- Can store audio on the card
- Internal flash slot to play chimes and ringer sounds, pre-recorded announcements, or background music stored on its internal memory card or a network drive.
- Door chimes, rings, etc. set throughout the distributed audio system

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SONNEX



Featuring an all-in-one high-efficiency hardware design and exclusive single-wire digital bus technology, Sonnex greatly reduces the hardware and cabling requirements of traditional

systems. Gone are the days of purchasing separate amps/preamps and switchers, and the extensive cabling requirements that accompany them.

The result is unmatched design flexibility in any application, without sacrificing sound quality. In fact, the advances in performance, output power, energy efficiency and ease-of-installation are ground breaking.

Sonnex provides audiophiles with everything needed to create pristine listening experiences in every room.

48 channels of HD audio -> 74 speaker zones -> ONE low-cost wire. Only with Sonnex.

Detail information, please refer to

http://www.crestron.com/features/sonnex_digital_audio_distribution/default.asp

Video Product

HD-DA-2

- to-2 HDMI™ Distribution Amplifier & Audio Converter
- Supports HDMI w/Deep Color and 7.1 channel HD lossless audio
- Full configuration of audio EDID by simple DIP Switches
- Includes front panel input signal and HDCP status indicators



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HD-Scaler



- Automatically scales any input signal to match the native resolution of your display
- Digital: 100% HDCP compliant; supports HDMI, DVI, and DisplayPort multimode digital sources
- Analog: RGBHV, RGBS, RGsB, component, composite, and S-video analog signals
- 2x1 auto-switching
- Video features
 - 125 pre-defined input resolutions
 - Define any custom resolutions
 - Supports 5% overscan
 - Built-in test patterns for easy setup
- OSM for configuration using included IR remote
- Compact, low-profile surface mount design

DM 8G: 8 Gigabits of HD over 330' Crestron DM 8G cable without latency

Crestron's revolutionary new DigitalMedia™ 8G technology, the first true one-wire, high-output network. DigitalMedia 8G delivers unprecedented ultra-high speed and long distance transmission of all data, Ethernet and control, plus analog and digital AV signals. All signals and communications are managed over a single DM 8G shielded twisted pair cable; no compression or repeaters required. Installation is now faster, cheaper and easier than ever



Detail new product information, please refer to
http://www.crestron.com/solutions/digitalmedia_hdmi_distribution/

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DM is 3D ready

The fastest, most powerful AV network



Crestron DM is the only complete, integrated solution for the digital age, and it enables customers to enjoy the impactful 3D experience in the comfort of their own homes. With DM, uncompressed digital

signals, HDMI, DVI, DisplayPort, Ethernet and USB keyboard/mouse control are seamlessly managed and distributed over DM 8G

- DM-MD8X8, DM-MD16X16, DM-MD32X32
- All HDMI input cards
- All output cards
- All DM-RMC boxes
- DM-TX-100 (all models)
- HD-MD8X1/8X2
- HD-DA-2
- HD-DA-2-Quad
- DM-MD-6x4
- DM-MD-6x6
- PSPHD

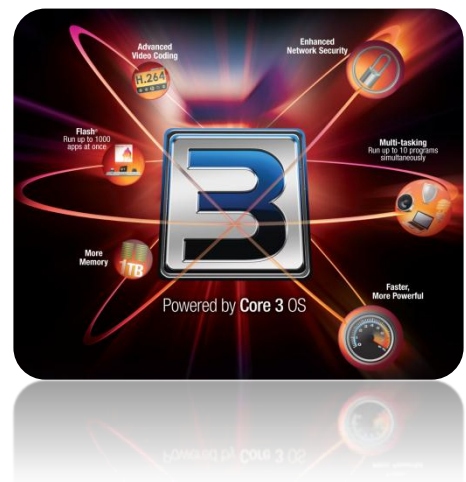


DM-MD8X8

New Control Platform

Crestron Core 3 OS

- Faster, more powerful processor (ARM Family)
- More memory
 - 256MB RAM/2GB Flash (for the MC3!)
 - Flash upgradeable via SD Slot to 1TB
- 30x speed and efficiency improvement
- Floating point co-processor
- High speed industry standard USB ports
- Built-in UI

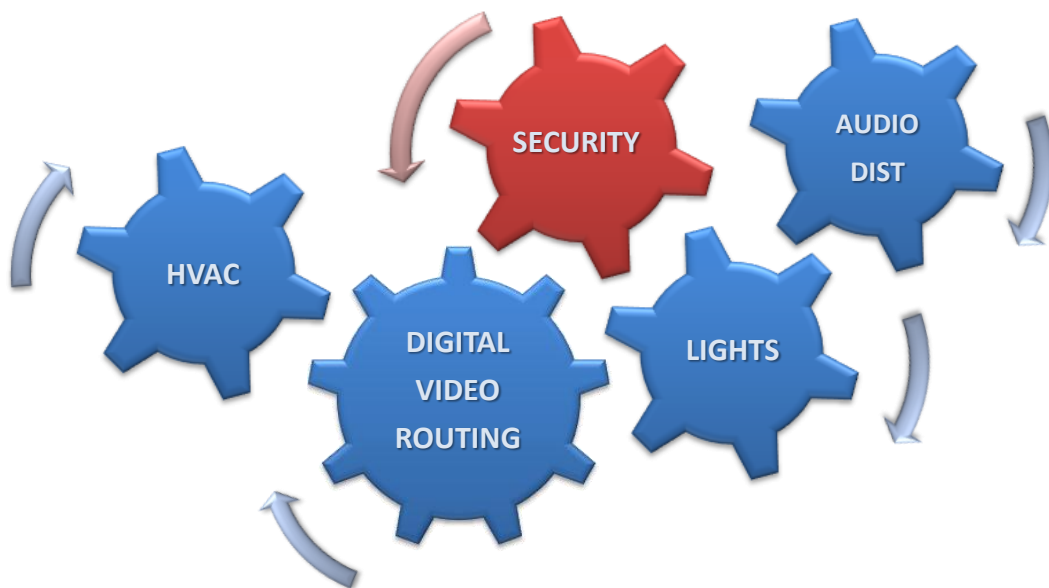


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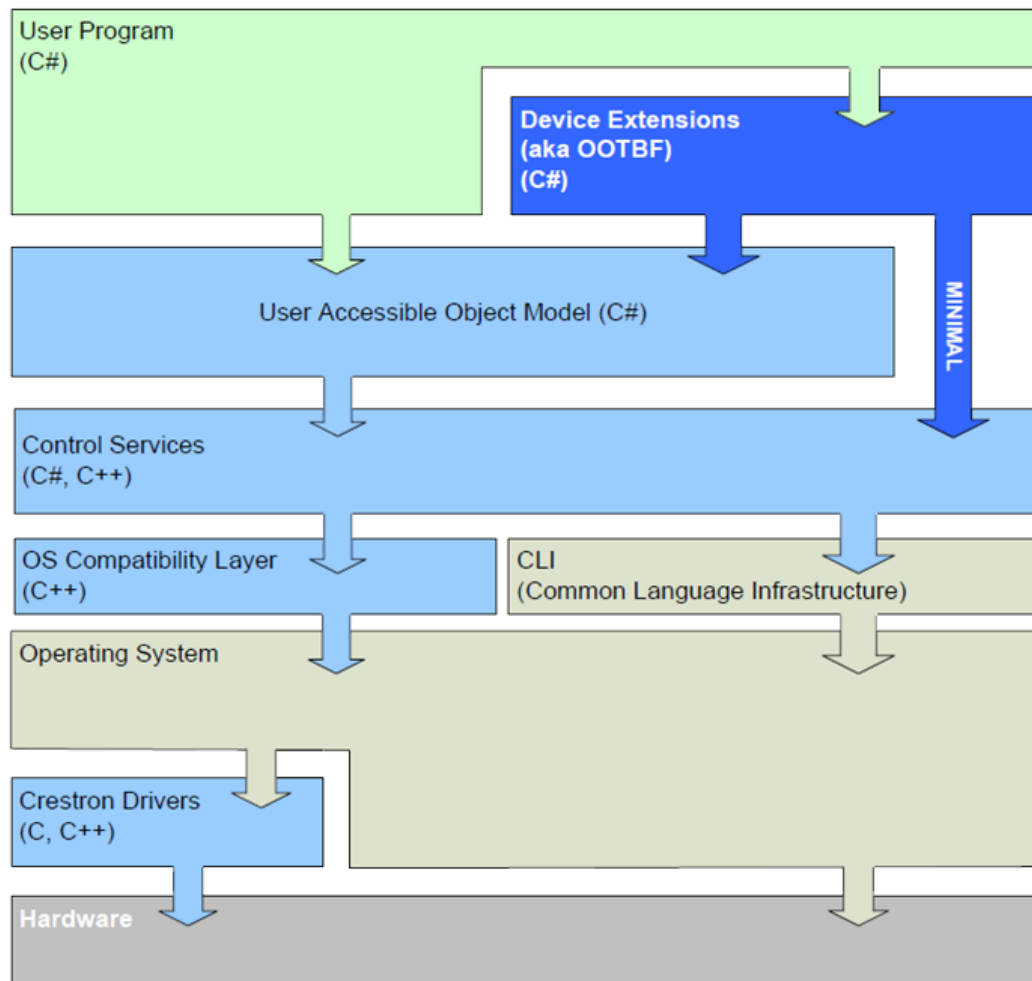


- 480P component output
- On-screen display
- Ability to
 - Render media
 - ◆ Hardware decoding built in for HD MPEG media (H.264)
 - ◆ MP3/AAC/FLAC support
- Higher network throughput capacity and security
 - IPV6
 - IPSEC
 - Handles 50%+ network capacity
 - IIS Webserver built in
- Access to network resources
 - Active directory
 - File server (FTP, etc.)
 - SQL Server
 - Auto-discovery



Update a Logic Engine While Others Run

New programming Language



New UI Platform

- Vector-based graphics
 - Scale across all displays while maintaining graphic integrity
- Mature development tools (It's Flash!!)
- Massive amounts of free, online, object libraries
- Fast, full motion graphics
 - Capitalizes on hardware graphics acceleration

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- Every object is a movie
 - Incredible button animations
 - Interactive
 - ◆ Gauges
 - ◆ Knobs
 - ◆ Graphs (energy management, etc.)
- Flash Version 10.3
 - Consistent across desktop and lightweight devices
 - ActionScript 3.0
- Ability to have objects connect directly to
 - Devices
 - Services (Internet)
 - Run applications

Package



PMC3

- Onscreen display to control music, lights and more
- Central controller for Prodigy systems
- Add multiple PMC3s to a single system
- Extremely intuitive user interface
- Comes with all-new PLX3 handheld remote

PMC3-XP

- Prodigy is now limitless!
- Onscreen display to control music, lights and more
- Use any Crestron device with Prodigy
- Expand audio, video, touchpanels and more
- Provides additional IR and RS-232 connectivity

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New Prodigy Devices

- P-TSTATEX
- P-CBDEX Wireless Keypad
- PLX3
- PTX3
- PTX6
- P-IDOC-PAD and P-IDOC-PAD-DSW
- P-MD6x4
- P-MD6x6
- P-RMC-100-C

